Bruhath Bengaluru Mahanagara Palike

QUALITY ASSURANCE/QUALITY CONTROL REPORT

Office of the Chief Engineer (Quality Assurance/Control) Annexure-05,
BBMP Head Office, Hudson circle Bengalore-001,
Ph.no:08022975541, E-mail ID:qualitycontrol.bbmp@gmail.com

QUALITY ASSURANCE REPORT/QUALITY CONTROL REPORT

SE/QA/PR/ 116 /2022-23, DATE: 24/4/23		
Name of Work	:	Package No 07 (Consist of 7 works) Estimated cost 1000.00 Lakhs
Job Code	:	009-23-000004
Bill No. & Amount	:	**1st & Part Bill.Rs. 2,91,215,19.00 (Including GST)**
Name of Agency	:	**Sri. K.Lakshmi Narayana Reddy**
Type of Test Performed	:	Rebound Hammer test as per IS13311-(2)-1992 & Bitumen Content and Gradation test as per Table 500.10 & Table 500.17 MoRTH V Revision.
Materials on which Tests Was Performed	:	1. RCC Drain wall (M20) 2. Precast cover slab Over Drain (M20) 3. Precast cover slab Over Culvert (M20) 4. Kerb Stone (M20) 5. Dense Bituminous Concrete (Grade II) 6. Bituminous Concrete (Grade II)
Officers present during inspection	:	1. Sri. Jayanth Kumar AE – Ward No.11 2. Sri C. Shridhar. AEE-Quality Assurance
Project Management Consultants	:	M/s Karnataka Material Test House Pvt Ltd
Observations	:	➢ NDT (Rebound hammer test) and Bitumen content & Gradation test was conducted by Project Management Consultants representative at random locations in presence of AE (Ward No.11) along AEE QA division. ➢ The Rebound Hammer Test was conducted randomly on RCC Drain wall (M20), Pre cast cover slab (M20) & Kerb Stone (M20) and also Bitumen content & Gradation Test were conducted for DBM (Grade II) & BC (Grade-II). The readings and results are recorded by the PMC consultants. ➢ The readings of Rebound Hammer Test and Bitumen Content & Gradation Test results are tabulated and analysis of test results done by PMC is here by furnished. ➢ The location wise test results are reproduced in the tables shown below.
Test Locations	:	Location 1: Jamia Masjid Road (near Sri Manjunath Enterprises) Location 2: Cross Road Srinidhi Layout (opp to Vacant site #54,) Location 3: 8th Main Road Srinidhi Layout (Opp to House No.134) Location 4: Jamia Masjid Road (near HKGN Chicken Centre, Opp to GM Bike Point,Opp To Ro Water Plant) Location 5: 8th Main Road Srinidhi Layout (Opp to #134 House, Opp To Shantha Durga #63/B, Opp to Green Court Appartment Gate)

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Table-01: Rebound Hammer Test Results for Location-1

Sl. No.	Landmark	Member	Rebound Hammer Number	Average reading	Compressive Strength (N/mm2)	Impact Direction
Sample Tested Location at : Jamia Masjid Road						
1	Near Sri Manjunath Enterprises	Precast Cover Slab over Drain (M20)	28	26	22	Vertical down
2			26			
3			24			
4			25			
5			28			
6			26			
1		Kerb Stone (M20)	28	28	20	Horizontal
2			28			
3			30			
4			29			
5			27			
6			28			

Table-02: Rebound Hammer Test Results for Location-2

Sl. No.	Landmark	Member	Rebound Hammer Number	Average reading	Compressive Strength (N/mm2)	Impact Direction
Sample Tested Location at Cross Road Srinidhi Layout						
1	opp to Vacant site #54	Precast Cover Slab over Drain (M20)	26	25	21	Vertical down
2			24			
3			26			
4			24			
5			26			
6			25			
1		RCC Drain Wall (M20)	30	29	22	Horizontal
2			28			
3			30			
4			30			
5			29			
6			28			

Table-03: Rebound Hammer Test Results for Location-3

Sl. No.	Landmark	Member	Rebound Hammer Number	Average reading	Compressive Strength (N/mm2)	Impact Direction
Sample Tested Location at 8th Main Road Srinidhi Layout						
1	Opp to House No.134	Precast Cover Slab over Culvert (M20)	25	26	22	Vertical down
2			26			
3			24			
4			26			
5			28			
6			27			

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
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Table-04: Bitumen Content and gradation Test Results for Jamia Masjid Road at random locations

DBM- (GRADE-II)

Landmark/Location	Near HKGN Chicken Centre,	Opp to GM Bike Point,	Opp To Ro Water Plant
Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	550.00	558.00	598.00
2. Initial weight of filter paper (gms) w2	2.0	2.0	2.0
3. final weight of sample after extraction (gms) w3	526.3	534.2	572.0
4. Final weight of filter paper (gms) w4	4.00	4.00	4.00
5. Weight of finess (gms) w5=(w4-w2)	2.00	2.00	2.00
6. Weight of Bitumen Extracted (gms). w6=w1-w3+w5	25.7	25.8	28
7. Bitumen content in % (w6/w1)x100	4.67	4.62	4.68
8.Average		4.65	

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative % Passing	
37.5	0.0	0	0.00	100.00	100
26.5	22.4	22.4	4.26	95.74	90 - 100
19	84.6	107	20.33	79.67	71 - 95
13.2	71.4	178.4	33.90	66.10	56 - 80
4.75	94.2	272.6	51.80	48.20	38 - 54
2.360	62.4	335	63.65	36.35	28 - 42
0.300	85.0	420	79.80	20.20	7 - 21
0.075	85.0	505	95.95	4.05	2 - 8

SIEVE SIZE mm	Trail 2				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0	0.00	100.00	100
26.5	25.4	25.4	4.75	95.25	90 - 100
19	90.4	115.8	21.68	78.32	71 - 95
13.2	73.4	189.2	35.42	64.58	56 - 80
4.75	90.4	279.6	52.34	47.66	38 - 54
2.360	66.4	346	64.77	35.23	28 - 42
0.300	81.0	427	79.93	20.07	7 - 21
0.075	75.0	502	93.97	6.03	2 - 8

SIEVE SIZE mm	Trail 3				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0	0.00	100.00	100
26.5	20.6	20.6	3.60	96.40	90 - 100
19	80.4	101	17.66	82.34	71 - 95
13.2	69.4	170.4	29.79	70.21	56 - 80
4.75	97.5	267.9	46.84	53.16	38 - 54
2.360	85.3	353.2	61.75	38.25	28 - 42
0.300	100.0	453.2	79.23	20.77	7 - 21
0.075	80.1	533.3	93.23	6.77	2 - 8

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Table-05: Bitumen Content and gradation Test Results Jamia Masjid Road at random locations

BC- (GRADE-II)

Landmark/Location	Near HKGN Chicken Centre,	Opp to GM Bike Point,	Opp To Ro W... Plant
Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	545.00	598.00	510.00
2. Initial weight of filter paper (gms) w2	2.00	2.00	2.00
3. final weight of sample after extraction (gms) w3	515.6	566.4	483.2
4. Final weight of filter paper (gms) w4	4.00	4.00	4.00
5. Weight of finess (gms) w5=(w4-w2)	2.00	2.00	2.00
6. Weight of Bitumen Extracted (gms). w6=w1-w3+w5	31.4	33.6	28.8
7. Bitumen content in % (w6/w1)x100	5.76	5.62	5.65
8.Average	5.67		

SIEVE SIZE mm	Trail 1 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0.0	0	0.00	100.00	100
13.2	18.5	18.5	3.59	96.41	90-100
9.5	86.4	104.9	20.35	79.65	70-88
4.75	100.2	205.1	39.78	60.22	53-71
2.36	46.8	251.9	48.86	51.14	42-58
1.18	33.4	285.3	55.33	44.67	34-48
0.6	52.6	337.9	65.54	34.46	26-38
0.3	52.4	390.3	75.70	24.30	18-28
0.15	53.2	443.5	86.02	13.98	12-20
0.075	45.6	489.1	94.86	5.14	4-10

SIEVE SIZE mm	Trail 2 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0.0	0	0.00	100.00	100
13.2	20.6	20.6	3.64	96.36	90-100
9.5	85.4	106	18.71	81.29	70-88
4.75	112.2	218.2	38.52	61.48	53-71
2.36	47.6	265.8	46.93	53.07	42-58
1.18	42.3	308.1	54.40	45.60	34-48
0.6	65.8	373.9	66.01	33.99	26-38
0.3	59.3	433.2	76.48	23.52	18-28
0.15	54.0	487.2	86.02	13.98	12-20
0.075	58.0	545.2	96.26	3.74	4-10

SIEVE SIZE mm	Trail 3 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0.0	0	0.00	100.00	100
13.2	13.2	13.2	2.73	97.27	90-100
9.5	90.4	103.6	21.44	78.56	70-88
4.75	108.4	212	43.87	56.13	53-71
2.36	50.4	262.4	54.30	45.70	42-58
1.18	31.8	294.2	60.89	39.11	34-48
0.6	49.8	344	71.19	28.81	26-38
0.3	48.0	392	81.13	18.87	18-28
0.15	32.0	424	87.75	12.25	12-20
0.075	35.0	459	94.99	5.01	4-10

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Table-06: Bitumen Content and gradation Test Results 8th Main Road Srinidhi Layout at random locations DBM- (GRADE-II)

Landmark/Location	Opp to #134 House	Opp To Shantha Durga #63/B	Opp to Green Court Appartment Gate
Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	576.00	612.00	584.6
2. Initial weight of filter paper (gms) w2	2.00	2.00	2.00
3. final weight of sample after extraction (gms) w3	551.2	585.00	559.6
4. Final weight of filter paper (gms) w4	4.00	4.00	4.00
5. Weight of finess (gms) w5=(w4-w2)	2.00	2.00	2.00
6. Weight of Bitumen Extracted (gms). w6=w1-w3+w5	26.8	29.0	27
7. Bitumen content in % (w6/w1)x100	4.65	4.74	4.62
8.Average	4.67		

SIEVE SIZE Mm	Trail 1				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative % Passing	
37.5	0.0	0	0.00	100.00	100
26.5	12.6	12.6	2.29	97.71	90 - 100
19	78.6	91.2	16.55	83.45	71 - 95
13.2	68.4	159.6	28.96	71.04	56 - 80
4.75	100.2	259.8	47.13	52.87	38 - 54
2.360	62.4	322.2	58.45	41.55	28 - 42
0.300	115.3	437.5	79.37	20.63	7 - 21
0.075	78.0	515.5	93.52	6.48	2 - 8

SIEVE SIZE Mm	Trail 2				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0	0.00	100.00	100
26.5	18.6	18.6	3.18	96.82	90 - 100
19	78.4	97	16.58	83.42	71 - 95
13.2	68.4	165.4	28.27	71.73	56 - 80
4.75	125.0	290.4	49.64	50.36	38 - 54
2.360	62.4	352.8	60.31	39.69	28 - 42
0.300	115.0	467.8	79.97	20.03	7 - 21
0.075	79.2	547	93.50	6.50	2 - 8

SIEVE SIZE Mm	Trail 3				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0	0.00	100.00	100
26.5	15.4	15.4	2.75	97.25	90 - 100
19	75.2	90.6	16.19	83.81	71 - 95
13.2	71.3	161.9	28.93	71.07	56 - 80
4.75	112.6	274.5	49.05	50.95	38 - 54
2.360	67.4	341.9	61.10	38.90	28 - 42
0.300	105.0	446.9	79.86	20.14	7 - 21
0.075	85.3	532.2	95.10	4.90	2 - 8

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009-23-000004 - 1st & Final

Table-07: Bitumen Content and gradation Test Results 8th Main Road Srinidhi Layout at random location BC- (GRADE-II)

Landmark/Location	Opp to #134 House	Opp To Shantha Durga #63/B	Opp to Gr... Court Appartment Gate
Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	540.00	526.00	534.00
2. Initial weight of filter paper (gms) w2	2.00	2.00	2.00
3. final weight of sample after extraction (gms) w3	512	498.6	505.8
4. Final weight of filter paper (gms) w4	4.00	4.00	4.00
5. Weight of finess (gms) w5=(w4-w2)	2.00	2.00	2.00
6. Weight of Bitumen Extracted (gms). w6=w1-w3+w5	30	29.4	30.2
7. Bitumen content in % (w6/w1)x100	5.56	5.59	5.66
8.Average		5.60	

SIEVE SIZE Mm	Trail 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0.0	0	0.00	100.00	100
13.2	18.5	18.5	3.61	96.39	90-100
9.5	88.4	106.9	20.88	79.12	70-88
4.75	99.4	206.3	40.29	59.71	53-71
2.36	50.2	256.5	50.10	49.90	42-58
1.18	33.4	289.9	56.62	43.38	34-48
0.6	68.4	358.3	69.98	30.02	26-38
0.3	42.6	400.9	78.30	21.70	18-28
0.15	48.0	448.9	87.68	12.32	12-20
0.075	40.5	489.4	95.59	4.41	4-10

SIEVE SIZE Mm	Trail 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0.0	0	0.00	100.00	100
13.2	15.2	15.2	3.05	96.95	90-100
9.5	94.2	109.4	21.94	78.06	70-88
4.75	112.4	221.8	44.48	55.52	53-71
2.36	52.7	274.5	55.05	44.95	42-58
1.18	32.6	307.1	61.59	38.41	34-48
0.6	52.8	359.9	72.18	27.82	26-38
0.3	40.2	400.1	80.24	19.76	18-28
0.15	34.6	434.7	87.18	12.82	12-20
0.075	34.5	469.2	94.10	5.90	4-10

SIEVE SIZE Mm	Trail 3				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0.0	0	0.00	100.00	100
13.2	20.6	20.6	4.07	95.93	90-100
9.5	84.6	105.2	20.80	79.20	70-88
4.75	86.2	191.4	37.84	62.16	53-71
2.36	49.2	240.6	47.57	52.43	42-58
1.18	46.2	286.8	56.70	43.30	34-48
0.6	64.2	351	69.40	30.60	26-38
0.3	46.4	397.4	78.57	21.43	18-28
0.15	28.4	425.8	84.18	15.82	12-20
0.075	48.2	474	93.71	6.29	4-10

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Conclusion:

The file containing **1st & part bill** has been submitted for the above work to QA department on 28.03.2023 requesting for spot inspection. Engineers of QA/QC division have visited the work spot on 05.04.2023

During the inspection, it was understood that the items found in the bill, have been executed by the contractor from the documents provided by PMC team and from the file submitted.

PMC team was instructed to assess the strength of concrete used RCC Drain wall (M20), Precast cover slab (M20) & Kerb stone (M20) by Rebound Hammer Test and also Gradation & Bitumen content test for DBM (grade-II) & BC (Grade-II) on Asphalted road . The Rebound hammer test and Bitumen Content and Gradation Tests were conducted by PMC in presence of engineer in charge of work.

From the test results furnished by PMC consultants, it is concluded that the results of the samples collected are in accordance with the standards/ specifications mention in the IRC codes. However, the results submitted by the PMC have been reproduced here with for further needful action. The results checked by QA/QC relates only for item tested in the particular location randomly.

Further, QA/QC directs the PMC and Engineer in-charge of the work that all materials used for the work shall be inspected, tested and accepted as per the relevant specifications before incorporation in the work. The frequencies and methods of sampling and testing materials, including those required for definite purpose and not covered by MORT&H specifications shall be in accordance to the relevant IRC or BIS or AASHTO/ASTM/BS standards in order of priority.

All materials or work not conforming to the requirements of the specifications shall be considered unacceptable and rejected. The unacceptable materials or works that are rejected shall be immediately removed unless the defects are corrected and approved by the engineer in-charge of work.

The concerned Engineer in charge of the work shall follow the direction issued by Chief Commissioner Letter number dated 01.08.2022 and 14.09.2022 and take necessary action as appropriate in accordance with the law.

Note: -

This report by QA/QC is pertaining to the work carried out in **1st & part bill** only. Therefore, further QA/QC reports shall be obtained for the items of work carried out in future Running Account bill / Final bill.

Safety precautions shall be taken at work spot to prevent any mishap, injuries or loss of life to general public and construction workers according to guidelines laid down in code of practices.

Engineer in charge of work shall obtain requisite approval and Implement traffic management plan prior to commencement of work.

Engineer in charge of work shall display details of work, work code, cost of project, start and completion date, and information of Engineer in charge of work with contact numbers at work spot.

Engineer in charge of work and Agency shall ensure that if any damages or defects occur pertaining to the executed work within the Defect Liability period (DLP), The same shall be rectified immediately on top priority without fail.

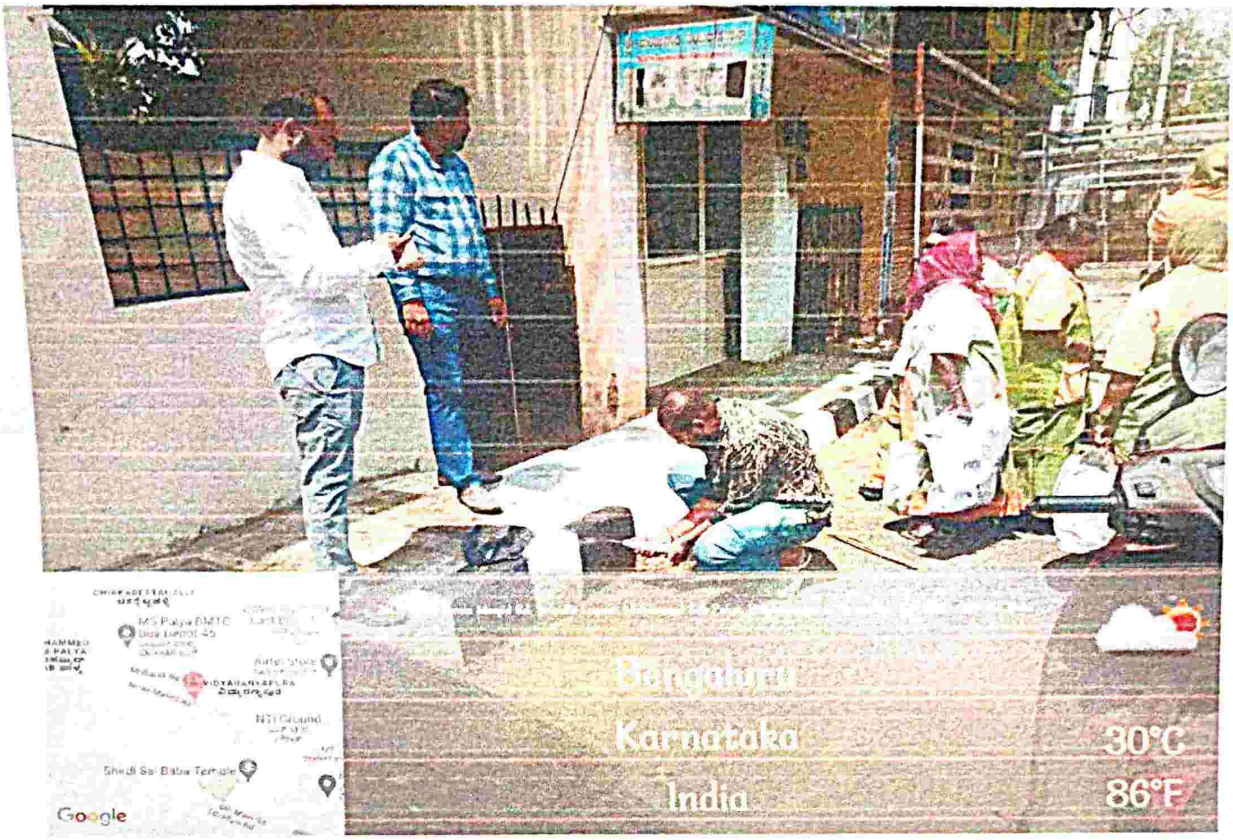
04/4/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಮಟ್ಟ ನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಮಟ್ಟ ನಿಯಂತ್ರಣ ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಮಟ್ಟ ನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

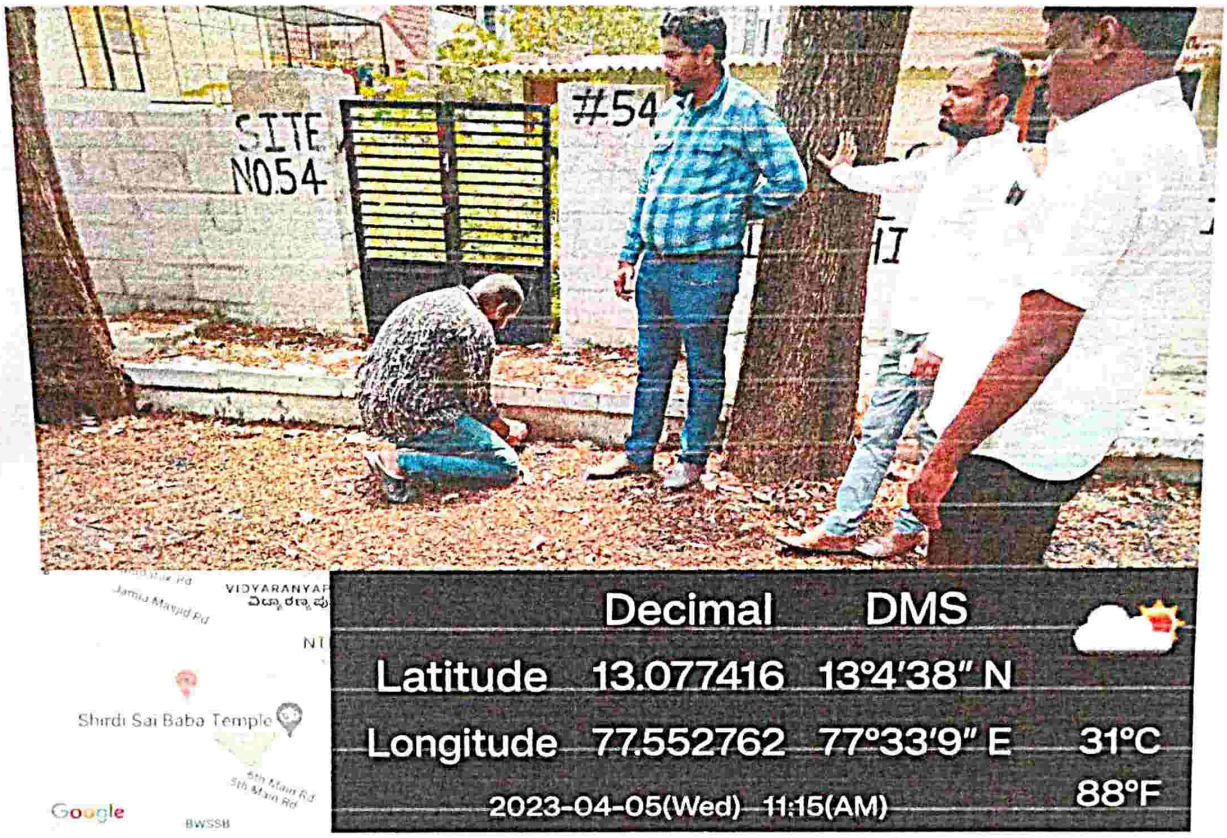
Location 1: Jamia Masjid Road (near Sri Manjunath Enterprises)

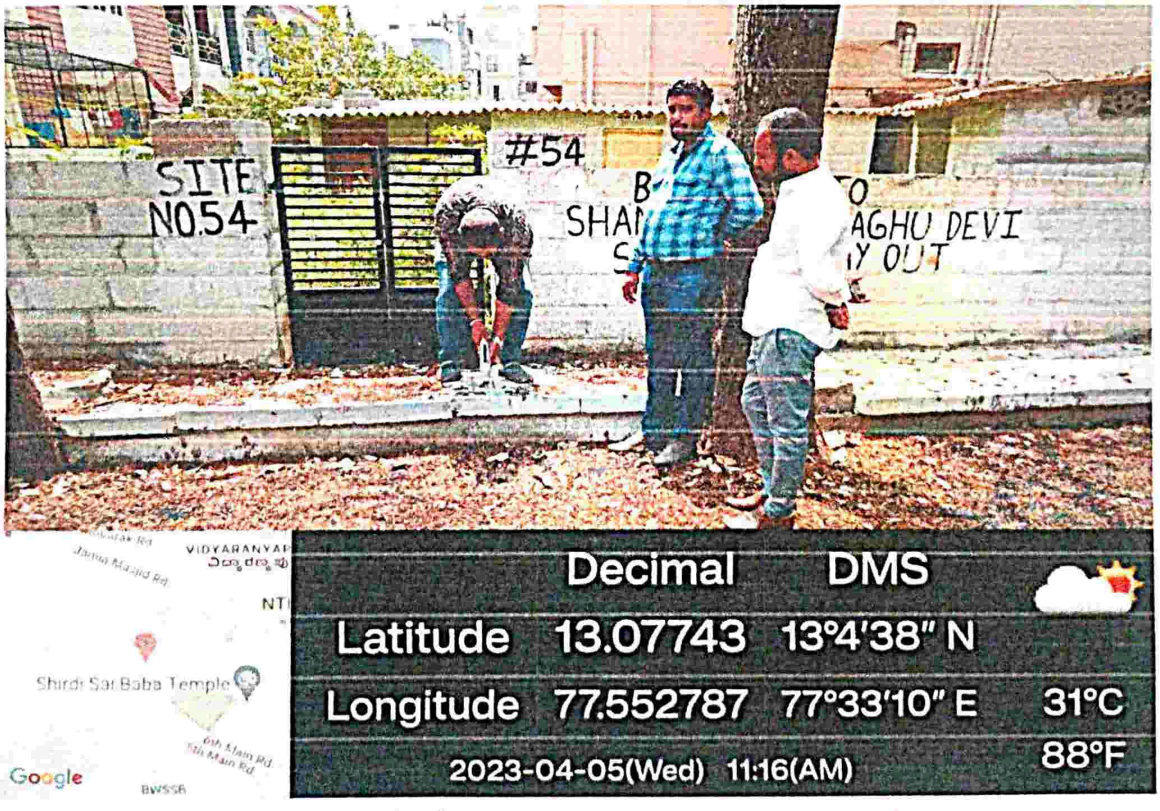


ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Location 2: Cross Road Srindhi Layout (opp to Vacant site #54,)





24/4/23
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

24/4/23
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

24/04/23
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Location 3: 8th Main Road Srindhi Layout (Opp to House No.134)

24/4/23

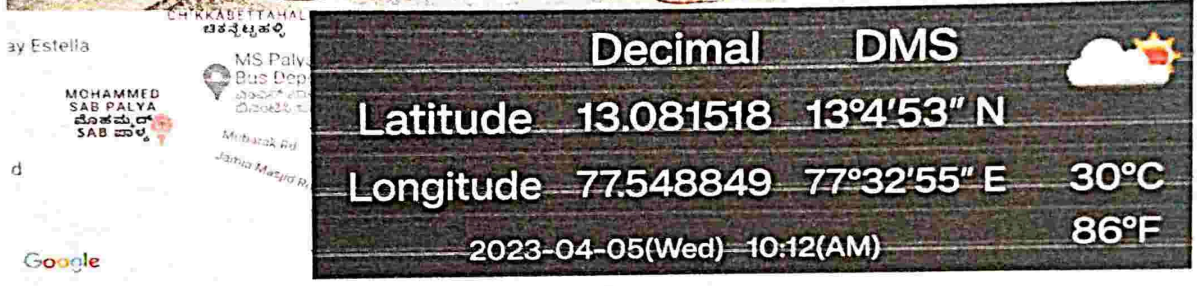
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

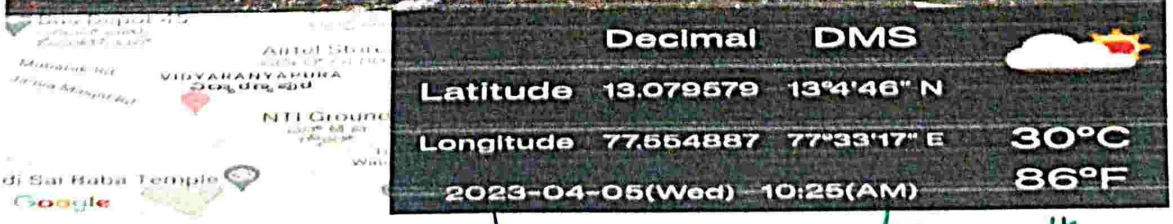
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

24/4/23

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Location 4: Jamia Masjid Road (near HKGN Chicken Centre, Opp to GM Bike Point, Opp To Ro Water Plant)





04/4/23

24/4/23

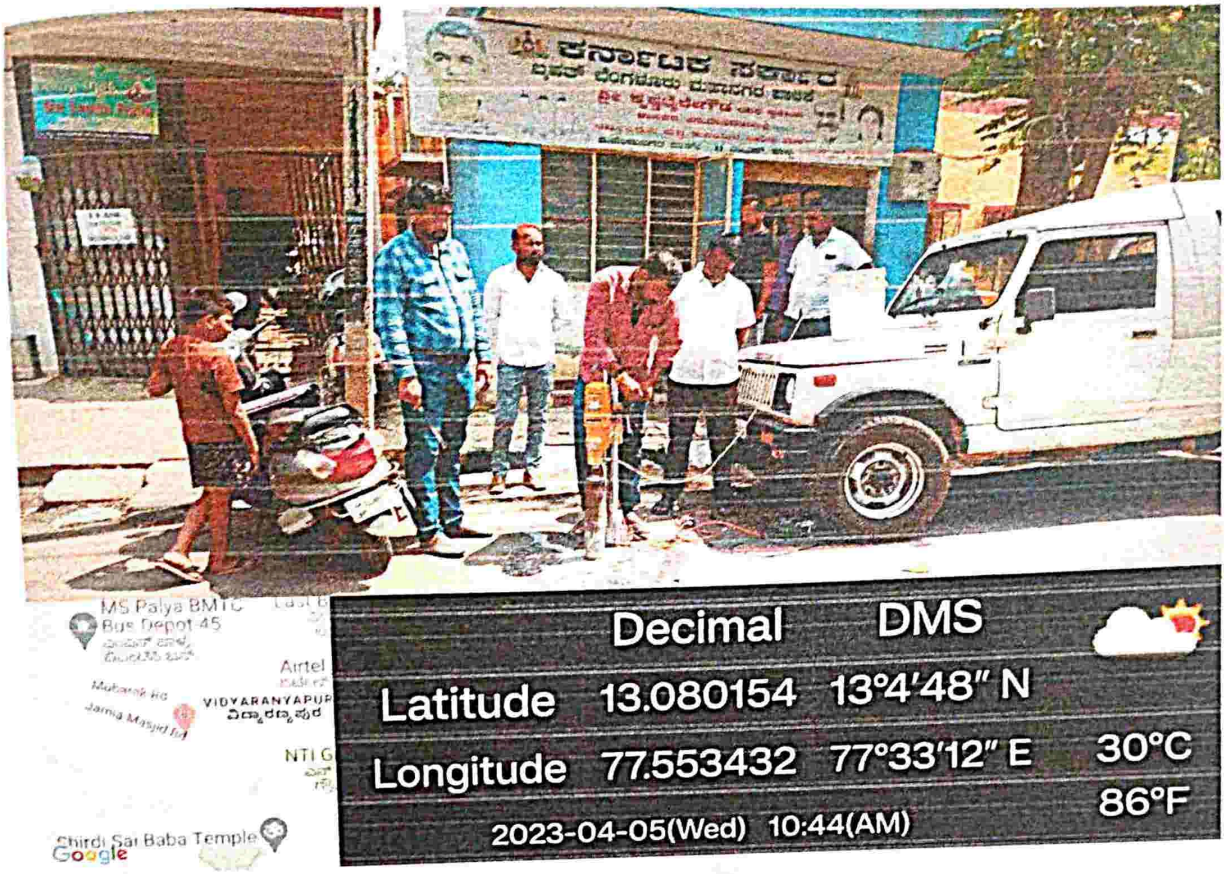
24/4/23

Package No 07 (Consist of 7 works)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಯಲಸಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



Location 5: 8th Main Road Srinidhi Layout (Opp to #134 House, Opp To Shantha Durga #63/B, Opp to Green Court Appartment Gate)

24/4/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

26/4/23

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

	Decimal	DMS	
Latitude	13.078099	13°4'41" N	
Longitude	77.552312	77°33'8" E	31°C
2023-04-05(Wed) 11:23(AM)			88°F

	Decimal	DMS	
Latitude	13.077876	13°4'40" N	
Longitude	77.552744	77°33'9" E	31°C
2023-04-05(Wed) 11:35(AM)			88°F

24/4/23

Package No 07 (Consist of 7 works)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ ಯಲಹಂಕ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ